



GP/2776

RECEIVED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inter Application of SEP 22 2000 Roy Shkedi

TO 2700 MAIL ROOM

A DESCRIPTIVE-PROFILE
MERCANTILE METHOD

Serial No. : 09/593,993
Filing Date : 14 June 2000
Attorney Docket No. : JMB 2 0005

Cleveland, Ohio 44114-2518
September 11, 2000

Assistant Commissioner For Patents
Washington, D.C. 20231

CLAIM FOR RIGHT OF PRIORITY

Dear Sir:

Pursuant to 37 C.F.R. §1.55 and MPEP §201.14, Applicant claims the benefit of the filing date of a prior Israel patent application having Application No. 133489, filed on December 13, 1999, under conditions specified in 35 U.S.C. §119.

A certified copy of the foreign application is being filed herewith.

Respectfully submitted,

September 11, 2000
Date

Jay F. Moldovanyi
Jay F. Moldovanyi
Reg. No. 29,678
FAY, SHARPE, FAGAN,
MINNICH & MCKEE, LLP
1100 Superior Avenue
Suite 700
Cleveland, Ohio 44114-2518
(216) 861-5582

CERTIFICATE OF MAILING

I hereby certify that this Claim For Right of Priority is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner For Patents, Washington, D.C. 20231, on September 11, 2000.

Laurie A. Boylan
Laurie A. Boylan



מדינת ישראל
STATE OF ISRAEL

RECEIVED

SEP 22 2000

TC 2700 MAIL ROOM

Ministry of Justice
Patent Office

משרד המשפטים
לשכת הפטנטים

This is to certify that annexed
hereto is a true copy of the
documents as originally
deposited with the patent
application of which
particulars are specified on the
first page of the annex.

זאת לתעודה כי רצופים
בזה העתקים נכונים של
המסמכים שהופקדו
לכתחילה עם הבקשה
לפטנט לפי הפרטים
הרשומים בעמוד הראשון
של הנספח.

14-07-2000
This _____ היום
רשם הפטנטים
Commissioner of Patents

נתאשר
Certified

לשימוש הלשכה
For Office Use

133484	מספר : Number
13-12-1999	תאריך : Date
	הוקדם / נדחה Ante/Post-dated

חוק הפטנטים, תשכ"ז - 1967
PATENT LAW, 5727-1967
ב ק ש ה ל פ ט נ ט
Application for Patent

אני, (שם המבקש, מענו ולגבי גוף מאגד - מקום התאגדותו)
I (Name and address of applicant, and in case of body corporate-place of incorporation)

AlmondNet, Inc.
15 East North Street
City of Dover,
County of Kent, Delaware
USA

A US Company

Inventor:
Roy Shkedi

ששמה הוא

הדין

בעל אמצאה מכח

Owner, by virtue of

the Law

of an invention the title of which is

שיטה מסחרי של פרופיל תיאורי

(בעברית)
(Hebrew)
(באנגלית)
(English)

A DESCRIPTIVE-PROFILE MERCANTILE METHOD

hereby apply for a patent to be granted to me in respect thereof.

מבקש בזאת כי ינתן לי עליה פטנט

בקשת חלוקה Application of Division	בקשת פטנט מוסף Application for Patent Addition	דרישה דין קדימה Priority Claim		
מבקשת פטנט from Application	לבקשה / לפטנט to Patent / Appl.	מספר/סימן Number / Mark	תאריך Date	מדינת האגוד Convention Country
No. _____ dated _____ מיום	No. _____ dated _____ מיום			
יפוי כח: כללי / מיוחד / - רצוף בזה / עוד יוגש P.O.A. : general / individual-attached / to be filed later הוגש בענין _____ filed in case _____				
המען למסירת מסמכים בישראל: ירמיהו מ. בן-דוד ושות' בע"מ ת.ד. 45087 Address for Service in Israel: 91450 Jeremy M. Ben-David & Co. Ltd. PO Box 45087 Jerusalem 91450				
חתימת המבקש Signature of Applicant		היום 13 בחודש דצמבר 1999 This 13 day of December of the year 1999		

Our ref.: ALM 307/1.1

מספרנו:

לשימוש הלשכה
For Office Use

טופס זה, כשהוא מוטבע כחותם לשכת הפטנטים ומושלם במספר ובתאריך ההגשה, הינו אישור להגשת הבקשה שפרטיה רשומים לעיל.
This form, impressed with the Seal of the Patent Office and indicating the number and date of filing, certifies the filing of the application, the particulars of which are set out above.

שיטה מסחרי של פרופיל תיאורי

A DESCRIPTIVE-PROFILE MERCANTILE METHOD

AlmondNet, Inc.

ALM 307/1.1

A Descriptive-Profile Mercantile Method

שיטה מסחרי של פרופיל תיאורי

FIELD OF THE INVENTION

The present invention generally relates to a mercantile method.

More specifically, the present invention relates to a mercantile method directed to brokerage of attributes of information.

BACKGROUND OF THE INVENTION

Advances in database technology have given rise to commerce in records, files and databases, per se. For example, paying for a database credit check for an individual or buying a mailing list have become common practice. These well-known systems do not address the problems of how the database is to collect all of the attributes of information that are contained therein. Often, the contents of a database are the result of massive clerical efforts, which usually represent the product of many calendar years of transactional accumulations.

Sometimes, whole databases are merged to form higher precision data clusters. For example, voting turnout lists may be integrated with census data to

produce a register from which a statistical profile of voters may be derived. Another example relates to merging the records of a credit card company with the records of a mortgage company. For those persons having an entry in each of the constituent record sets, the result is a credit profile of more precise resolution. In this example, the actual economic value of merged records exceeds the combined values of constituent records. This would likewise be true for the inclusion of any additional attribute of information to any record.

Unfortunately, the current state of information commerce is focused on the sales of whole databases, whole records, or evaluations based on single or clusters of records. In commercial applications where specific attributes of information strongly effect the value of evaluations, there is a need in the art for commerce in such attributes. For example, in targeted advertising, every attribute, which substantially effects the probability of that advertisement's success, innately has a discrete economic value. Likewise, in actuarial calculations, how precisely a client can be profiled determines what the probability of profiting from such a client.

More specifically, there remains a need in the art for assigning values to information attributes or for managing value assignments to information attributes. In the absence of such assignments or management, the commerce in information attributes, per se, is substantially precluded; especially in client-specific advertisement profiling, client-specific actuarial targeting, and the like.

NOTICES

The present invention will forthwith be described with a certain degree of particularity, however those versed in the art will readily appreciate that various modifications and alterations may be carried out without departing from either the spirit or scope, as hereinafter claimed.

In describing the present invention, explanations are presented in light of currently accepted theories and models; be they scientific, economic,

sociological, etc. Such theories and models are subject to changes, both adiabatic and radical. Often these changes occur because representations for fundamental component elements are innovated, because new transformations between these elements are conceived, or because new interpretations arise for these elements or for their transformations. Therefore, it is important to note that the present invention relates to specific technological actualization in embodiments. Accordingly, theory or model dependent explanations herein, related to these embodiments, are presented for the purpose of teaching, the current man of the art or the current team of the art, how these embodiments may be substantially realized in practice. Alternative or equivalent explanations for these embodiments may neither deny nor alter their realization.

GLOSSARY

Profile: A collection of attributes that describe a person or an organization or any other entity that can be described by a combination of data. For example, a person profile could be a collection of the following attributes: the person's gender, the person's age, the person's education, the person's interests as reflected in his behavior or as reported by the person or as reflected from his membership in a specific club and so forth. An organization profile could be a collection of the following attributes: number of employees, activities the organization maintain whether business activities or other activities, the organization's revenues, the organization's gross profit, the organization's operating profit, the organization's net profit, the organization's equity and so forth. It should be mentioned that profile attributes include among other things, attributes that enable the identification of the entity described by the profile such as name, address, URL, cookie. In addition, profile attributes may include information learned about the entity described by the profile from a communication protocol such as the information learned about the visitor to a web site from its http header.

5 **User:** any entity that owns attributes contained in at least one partial profile. The entity could be a web site that has a database of its visitor profiles, an organization with a database of partial profiles or the subject described by the profile itself.

10 **Cookie:** A text (or alphanumeric) string that is put on a computer hard disk of a visitor to a web site by the web site's server. The cookie enables the identification of the specific computer on its future visits to the web site. Each cookie is reported (by the computer browser) only to the web site server that installed that cookie. Therefore, it should be clearly understood that the only way for a third party to acquire cookie data is to receive that data from the server that installed that cookie, or from another third party who so acquired the data from a chain of parties
15 going back to that cookie setting server, etc.

20 **Contract:** An agreement between a user and a system incorporating the method of the present invention wherein ownership of an attribute or a right to represent an attribute is transferred from one party to another for an agreed consideration. Generally, examples include a purchase of an attribute for cash or credit, or an acceptance of an attribute according to a brokerage fee schedule. More specifically, since there are many problems in assigning the value of an attribute, the system of the present invention may simply agree to store new attributes with the proviso that users
25 wishing to acquire a copy of these attributes will transfer a payment specified by the original attribute provider (the royalty payment) to that provider and a brokerage fee for providing this service payable to the system's account. Alternatively, the attribute provider or the system may elect to assign a value to an attribute using a formula which factors in
30 such parameters as newness of the attribute, geographical extent wherein the attribute is of presumable value, veracity of the attribute, etc.

SUMMARY OF THE INVENTION

The present invention generally relates to a descriptive-profile mercantile method, for use at a juncture in a data-communications topology having associated therewith a maintained databank of partial profiles, the method including the steps of:

- (a) from a user, receiving a transaction having therein a first partial profile;
- (b) using the first partial profile, searching a databank having a plurality of second partial profiles, wherein is included in said databank at least one null profile so that said searching will always yield at least one proximate second partial profile to the first partial profile;
- (c) between the user and the databank, contracting:
 - i. for the databank to own or represent a right to a first mutually agreed portion of the first partial profile, and substantially thereafter said databank incorporating the agreed portion of the first profile into at least one second partial profile; or
 - ii. for the user to own or represent a right to a second mutually agreed portion of at least one said proximate second partial profile, and substantially thereafter the databank transmitting to the user the second mutually agreed portion of the second profile.

The present invention comes to provide a means for making viable the economic commerce in information attributes. Since the value of such attribute will only become well understood with the implementation of the present method in the electronic commerce marketplace, the present best enabling mode for the present invention operates on a brokerage representation model. According to this model, a typical use of the present invention may be according to the following scenario.

An electronically facilitated visitor to an Internet web-site presents his credentials. These credentials could be the visitor profile itself or a cookie or a

user name and so forth that enables the site to retrieve the visitor profile or any combination of the above. Of course, it could be that the site does not have a profile of the visitor to that web-site. The web-site may make better profit from the visitation if it were to know more about the visitor. The web-site forwards
5 particulars from the visitor's credentials (a partial profile), as well as (optionally) a redirect to a portion of the visitor's page to a server located in cyberspace (at a juncture in a data communications topology). By redirecting a portion of the visitor's page to the server, the visitor's browser reports to the server a cookie the server put on the visitor's computer in the past, if any. This
10 server interconnects the user's transactions and the server own cookie (if used) with a computer having therein software for running the method of the present invention. Associated with the computer is a databank, having therein an organized ensemble of information attributes.

The computer uses the forwarded visitor credentials with its server cookie
15 (if any) to search the associated databank. Either or both of two possible mercantile events are set into motion thereby.

Firstly, it may be the case that the credentials contain new information attributes which are not heretofore known in the databank. According to a simple model of evaluating the value of those attributes, the database
20 incorporates these new attributes and the computer assigns a user selected micro-payment royalty for each elected use of these attributes by any other user. Stated simply, if the user provides a date of birth for a known named person in the data bank, then the user is the owner of that date of birth attribute, and a user designated micro payment royalty (or credit) is assigned to the user
25 for each purchase of that attribute by another user. The owner of the databank may likewise collect for itself a brokerage commission for each use of the attribute.

Secondly, the databank may contain new attributes that were not in the initial visitor credentials. In this case, the user is told that such attributes exist
30 for purchase, what these new attributes describe (e.g. education level associated with the visitor), and the micro-payment royalty plus brokerage fee that is

charged for each respective attribute. If the user is interested in any of these attributes, then a contract is agreed to, resulting in a micro-payment transfer from the user to the broker and to the royalty owner, and a transfer of a copy of the attribute to the user (the buyer).

5 Other types of contracts and other types of pricing structures are available for the user in his interactions with the "system of the present invention" (e.g. the computer with its associated databank); as will be describes in subsequent sections.

10 BRIEF DESCRIPTION OF THE FIGURES AND APPENDICES

In order to understand the invention and to see how it may be carried out in practice, embodiments including the preferred embodiment will now be described, by way of non-limiting example only, with reference to the
15 accompanying drawings, in which:

Figure 1 illustrates a schematic view of an Internet data-communications topology;

Figure 2 illustrates a schematic view of a system using the descriptive-profile mercantile method;

20 Figure 3 illustrates a schematic view of a computer program product;

Figure 4 illustrates a schematic view of a program storage device; and

Figure 5 illustrates a schematic view of an installed computer system for facilitating a descriptive-profile mercantile method.

25 DETAILED DESCRIPTION OF THE INVENTION

In Figure 1 there is presented a schematic illustration of a data-communications topology as a wide area network (e.g. the Internet) (1) having interconnected thereto a visitor (2), a user (3), and a system (4)
30 embodying the method of the present invention.

The present invention relates to a descriptive-profile mercantile method (further presented in figure 2), for use at a juncture in a data-communications topology having associated therewith a maintained databank of partial profiles, the method including the steps of:

- 5 (a) from a user (3), receiving (5) a transaction having therein a first partial profile;
- (b) using the first partial profile, searching (6) a databank (7) having a plurality of second partial profiles, wherein is included in said databank at least one null profile so that said searching will always yield at least one
10 proximate second partial profile to the first partial profile;
- (c) between the user and the databank, contracting:
 - i. (10) for the databank to own or represent a right to a first mutually agreed portion of the first partial profile, and substantially thereafter said databank incorporating the agreed portion of the first profile into at least
15 one second partial profile; or
 - ii. (9) for the user to own or represent a right to a second mutually agreed portion of at least one said proximate second partial profile, and substantially thereafter the databank transmitting to the user the second mutually agreed portion of the second profile.

20

According to an embodiment of the present invention, receiving a transaction includes extracting at least one predetermined key portion of the first partial profile, wherein at least one of these extracted predetermined key portions is then used as the first partial profile for the searching of the
25 databank. According to a variation of this embodiment, extracting includes constructing at least one composite key for the searching of the databank using a combinatorial of at least two of the predetermined key portions of the first partial profile.

30

According to another embodiment of the present invention, contracting includes selecting a pricing structure according to a rating of the user.

According to a different embodiment of the present invention, contracting a right includes accepting an obligation to pay for substantially each use or transfer of the agreed portion.

5

According to a further embodiment of the present invention, incorporating the agreed portion includes assigning a credibility weighting to the agreed portion of the first profile. According to a variation of this embodiment, incorporating includes convoluting the assigned credibility weighting of the first profile with a pre-existing credibility weighting of a substantially like agreed portion of a proximate second profile; and storing the convoluted new credibility weighting for the agreed portion in the databank. According to a further refinement of this variation, contracting includes selecting a pricing structure according to a result of a computation comparing the new credibility weighting with the pre-existing credibility weighting.

15

According to an additional embodiment of the present invention, receiving a transaction includes consulting an external database (11).

20

According to an extension embodiment of the present invention, the method is furthermore including:

25

- i) **searching** at least one external database (11) for a partial profile or portion thereof which complements a at least one second partial profile of the databank, and
- ii) between the database and the databank, **contracting** for the databank to own or represent a right to a first mutually agreed portion of the complementing first partial profile, and substantially thereafter said databank **incorporating** the agreed portion of the first profile into at least one second partial profile.

30

The present invention also relates to (see figure 3) a computer program product including a computer usable medium having computer readable program code embodied therein for facilitating descriptive profile mercantile activities, the computer readable program code including:

5 a) first computer readable program code (20) for causing a computer to receive a transaction from a user, the transaction having therein a first partial profile;

10 b) tied to the first computer readable program code, second computer readable program code (21) for causing the computer to use the first partial profile to search a databank having a plurality of second partial profiles, wherein is included in said databank at least one null profile so that said searching will always yield at least one proximate second partial profile to the first partial profile; and

15 c) tied to the second computer readable program code, third computer readable program code (22) for causing the computer to contract between the user and the databank:

20 i) for the databank to own or represent a right to a first mutually agreed portion of the first partial profile, and substantially thereafter for said databank to incorporate the agreed portion of the first profile into at least one second partial profile; or

ii) for the user to own or represent a right to a second mutually agreed portion of at least one said proximate second partial profile, and substantially thereafter for the databank to transmit to the user the second mutually agreed portion of the second profile.

25 Furthermore, the present invention relates to (see figure 4) a program storage device (30) readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for a descriptive-profile mercantile method, for use at a juncture in a data-communications topology having associated therewith a maintained databank of partial profiles, said method steps including:

30

- a) from a user, receiving a transaction having therein a first partial profile;
- b) using the first partial profile, searching a databank having a plurality of second partial profiles, wherein is included in said databank at least one null profile so that said searching will always yield at least one proximate second partial profile to the first partial profile;
- c) between the user and the databank, contracting:
 - i) for the databank to own or represent a right to a first mutually agreed portion of the first partial profile, and substantially thereafter said databank incorporating the agreed portion of the first profile into at least one second partial profile; or
 - ii) for the user to own or represent a right to a second mutually agreed portion of at least one said proximate second partial profile, and substantially thereafter the databank transmitting to the user the second mutually agreed portion of the second profile.

The present invention also relates to (see figure 5) a computer system for facilitating a descriptive-profile mercantile method, the system including:

- a) a computer (40) installed at a juncture in a data-communications topology (1);
- b) associated with said computer, a storage device (42) for keeping a maintained databank of partial profiles; and
- c) associated with the internal functionality components of the computer, appurtenances (41) for performing method steps including:
 - i) from a user, receiving a transaction having therein a first partial profile;
 - ii) using the first partial profile, searching a databank having a plurality of second partial profiles, wherein is included in said databank at least one null profile so that said searching will always yield at least one proximate second partial profile to the first partial profile;

iii) between the user and the databank, contracting:

- (1) for the databank to own or represent a right to a first mutually agreed portion of the first partial profile, and substantially thereafter said databank **incorporating** the agreed portion of the first profile into at least one second partial profile; or
- (2) for the user to own or represent a right to a second mutually agreed portion of at least one said proximate second partial profile, and substantially thereafter the databank **transmitting** to the user the second mutually agreed portion of the second profile.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

In the context of the preferred embodiment of the present invention, "Attribute" relates to an Information particular (or attribute) that is aggregated with other particulars to form a partial profile. Examples of Attributes may be: name, address, income, age, education, details of product purchase Transaction over the Internet, credit rating, etc.

In the context of the preferred embodiment of the present invention, "Data" relates to knowledge concerning a Visitor.

In the context of the preferred embodiment of the present invention, "Data-Communications Topology" relates to a virtually interconnected collection of communications facilities including at least one mutually agreed protocol between any directly communication facilities in the collection.

In the context of the preferred embodiment of the present invention, "Information" relates to the collection of all Attributes known by a User about a Visitor.

In the context of the preferred embodiment of the present invention, "Pricing Structure" relates to the price and payments for Data exchanged by the User and the System.

In the context of the preferred embodiment of the present invention, all profiles are by definition partial. A profile may describe aspects of a person, or an organization, or of a corporation. It is logically impossible to have complete Information about any of these. However, any particular of
5 Information about any of these may have an economic value for a customer of profile Information.

In the context of the preferred embodiment of the present invention, a "Databank" relates to an accessible searchable aggregation of records or like Data structure units wherein "partial" profiles are stored.

10 In the context of the preferred embodiment of the present invention, "System" relates to a computer embodying the descriptive profile mercantile method according to the present invention.

In the context of the preferred embodiment of the present invention, "Transaction" relates to a process to complete a communicative activity
15 between the parties that reciprocally affect or influence the other party. It may include a partial profile, an identification of the User, a reference to a contractual mechanism related to the acquisition, screening, and/or distribution of new Data and a Pricing Structure

In the context of the preferred embodiment of the present invention,
20 "user" relates to an individual, web site, search-robot and/or other type of software agent that interacts with the System by virtue of their contacting a juncture in the Data-communications topology where the method is installed in order to acquire, trade, dispose of and/or broker some Attribute Data for the purpose of acquiring some potential economic or other value in connection
25 with that Attribute Data.

In the context of the preferred embodiment of the present invention, "visitor" relates to an entity the User has access to or is interested in. The visitor could be a consumer or potential customer of an offering of goods, services, or information.

INTRODUCTION

This invention relates to gaining an ability to buy, sell, broker, and trade specific pieces of Data between two disjoint parties within the context of a System that may include a Databank and that may include a micro-payment royalty arrangement as a Pricing Structure in connection with the aforesaid exchange of Data.

The specific pieces of Data that may be involved in the exchange are known as Attributes. The Attributes relate to details of a particular profile. The profile can be a collection of descriptive Information as used by an advertiser for generating targeted advertising or used by an insurer for finding a more specific actuarial rate. It is noted that a secondary type of profile that is also contained in another embodiment of the invention is a form of a collective profile that is an aggregate that is based on a pre-structured analysis of the existing individual profiles such as average or typical.

In the normal course of a Transaction between a User and an embodiment of a System according to the present invention a typical scenario ensues:

1. A Visitor arrives at a web site of the User. The web site of the User collects a variety of specific Data about the Visitor that may include the Visitor's cookie and any other Information that the Visitor voluntarily disclosed to the web site.
2. The web site has a number of interests in the Visitor and the Information that the web site possesses about the Visitor. In connection to a profile of the Visitor, there would be a benefit to the web site if the web site could acquire additional Information as to the specific Visitor or at least acquire typical profile Information about a class of individuals possessing similar profiles relative to the specific Visitor. Possession of such additional Information will enable the web site to engage in potentially more successful product offering and/or targeted

advertising to the Visitor. Another independent benefit that can accrue to the web site is to gain some economic remuneration for and as a function of the Information itself that the web site possesses about the Visitor.

5

In order for the web site to progress and to potentially achieve either or both of the above mentioned benefits (the improved targeted advertising (or improved product offering) to the Visitor as well as the gain of some economic remuneration of the Information itself about the Visitor); the web site now becomes a User of the System of the present invention. The web site as a User of the present invention constructs a Transaction that contain those portions of the Information it possesses about the Visitor that it is allowed to diverge to third parties.

15

The Transaction includes:

20

25

1. Information that the User is allowed to disclose to third parties about the Visitor.
2. Contract terms about the User, typically including but not limited to: identity, pre-determined rate structures per Transaction type, and Information type, pre-determined contractual relations with the System as to what each party - the User and the System can do with Information exchanged between them.
3. Instructions as to the type of Transaction - buy, sell, broker, and/or trade Information to be conducted between the User and the System.

30

Thus, the User sends a Transaction in the Data communication typology where the System is installed; as for example, via the Internet, Intranet, LAN, WAN, wireless packet communications System, etc. Thereupon, the System receives the Transaction, identifies the User, interprets instructions sent concerning the Transaction's contractual terms and type, i.e. the applicable

contract and structure for using all or part of the Attributes contained in the Information (hereinafter, "First Visitor Profile Data " includes the profile of the visitor as known to the site, visitor information included in the communication protocol such as the information in the http header, profile attributes that enable the identification of the entity described by the profile by the databank such as name, address, URL, cookie put by the server connected to the databank and so forth. It should be noticed that the profile of the visitor known to the site mentioned above might not include certain attributes the User is not interested in exposing to the databank or attributes that are of no interest to the databank. For example, a databank that identifies web site visitors by the cookie its server put on their computers, could decide not to take 'real world identifying attributes' such as name, address and e-mail in order to give web surfers a level of anonymity

The System searches a Databank according to what is contained in the First Visitor Profile Data (contained in the transaction) in order to find either: at least one profile in the Databank that matches the Information in the visitor profile (that includes the information dispatched by the User related to the Visitor, visitor information included in the communication protocol such as the information in the http header, profile attributes that enable the identification of the entity described by the profile by the databank such as name, address, URL, cookie put by the server connected to the databank and so forth.) or to find at least one aggregate profile that describes a profile of a group that the Visitor might be belonging to, as a member of that group.

If it is the intent contained in the Transaction instructions of the User to purchase additional Attributes that may relate to the First Visitor Profile Data, then the System examines the profiles it has found in its search, determines if it has any new Attributes not sent by the User. In the event that the System has found new Attributes that had not been sent by the User, the System reviews the contract instructions of the Transaction in order to determine the relevance of the new Attributes found to the intent of the User. If the system finds the new attributes relevant then, the System will debt the User's account in

accordance with a pre-agreed Pricing Structure in connection with additional Attributes related to the First Visitor Profile Data that are delivered as Data to the User.

5 A non-limiting example of the principle of Data release in accordance with the User's contractual instructions is here in provided. It may be that in the contract with the User, the User has instructed that it is never interested in receiving any Data that not specifically relates to the visitor, meaning the user is not interested in information about an average profile of a group that the visitor might belongs to. Another example could be that the user has instructed
10 that it is not interested in the habits of a visitor, but specifically only in information about his age, gender, education and income. (((the sentence in the brackets should be erased: in connection with the name of the Visitor. The reason may be to preclude the System from disclosing the name of the Visitor since the User always knows the name of the Visitor and has no interest in
15 paying to re-learn what it already knows. Thus, in accordance with the contractual instructions, no new Attribute Data relating to information the user specified it is not interested in will either be sent, and since not sent; it will not be debited.

An alternative example is the case where the User only has an interest in
20 a pre-defined - with in the Transactional instructions - set of Attributes. For example the User may only be interested in what type of car the Visitor drives, or what the Visitor's current credit rating is, or what may be most interesting example, what category of goods have been purchased by the Visitor over a pre-defined period. It is noted that elements of this last example may typically
25 be a piece of Information that other typical Users trade with or sell to the System.

It should be noted that a user may restrict the use of attributes it sells to the databank. The restrictions could be of number of usage, to whom the databank has the permission to sell or to whom not to sell and so forth.

30 A second class of Data that is found by the System as it searches may equally be of value to the User. This is the search result that demonstrate

discrepancies between the disclosure of Information by the User to the System and the results of the search by the System. The fact that there is a discrepancy as well as the nature thereof may be of value to the User, the System, or both.

5 A third category is the example where there may be pieces of Information of the User in the descriptive portion of the Transaction that describes the Visitor which the search by the System failed to disclose. For example, the make and model of the car driven by the Visitor of a recent purchase from the User's web site might be the new Information otherwise unknown to the System. In this instance, the System would go through an
10 appropriate contractual arrangement in order to credit the User for the new Attribute which the User has delivered to the System.

The various kinds of contracts available in a Transaction between the System and the User are: buy, sell, broker, and trade. Where new Information is disclosed to the System a royalty arrangement (or, alternatively, an outright
15 purchase or sale) comprised of micro payments may be employed. In addition to the various kinds of contracts, there are various types of Users. A User may be a large scale commercial web site or an individual small scale web page. Furthermore, there may be different types of rate structures. An audited User where the Users have taken efforts to verify Information relative to a User, as
20 for example a credit bureau, would have a different payment rate for new Information that it discloses to the System than from a User with Information that is neither audited not verified but which is causal.

Thus the value of Information in a Databank can change as a function of its credibility, source, and veracity. Accordingly, the royalty payment rate for
25 said Information could be enhanced or reduced as a function of its value.

In addition to profiles of a Visitor it may be of interest to allow an embodiment of the invention to create a type of secondary market for the Information consisting of a predetermined class of profiles about all Visitors. For example it may be of interest to know what type of individuals, their
30 profession, income, gender, and geographic location buy a certain model of

vehicle. The purchase, sale, trade, and/or brokerage of this class of Data can than enter a mercantile model and may be of significant interest to advertisers.

DESCRIPTION

5 The preferred embodiment of the present invention relates to the use of a procedure on a computer attached to a network, Internet, Intranet, LAN, WAN, wireless packet communication System or hybrid composite of any of the above whereby Data is exchanged by purchase, sale, trade, or brokerage and micro payments of royalties as a Pricing Structure that may accompany
10 the Data exchange.

 This procedure begins with the introduction to the System of Data that contains a partial profile that will be used in the establishment, supplement, or improvement of a descriptive profile. The partial profile will often itself contain certain predetermined identified commercial Attributes, demographic
15 Attributes, or behavioral Attributes or combinations thereof or the like. These Attributes then allow construction of a descriptive profile that resides as existing Information in a Databank. However, inherent design characteristics of the descriptive profile results in the descriptive profile always being partial. This means that Data within the profile relates to one or more Attributes of
20 the item, business, service, Data characteristic, advertisement, or person that is being profiled. The descriptive profile is then methodically employed in an activity that verifies or contradicts, maintains, modifies, updates or downgrades, and/or enhances the Databank of corresponding previously existing partial profiles. Thereafter, the System may retain, market, and/or
25 exchange with the User new resultant (of the process described) Data that contains further descriptive profile Attributes for further usage.

 Since the present invention is directed to the value of details of a profile; it is an object of the present invention to facilitate transfer of rights to such particulars. For example, a visitor may arrive at a commercial Internet
30 web-site. The visitor may disclose his cookie and may provide the web-site with other facts about the Visitor on a non-confidential basis. The web site

may then contact a juncture in a Data-communications topology where the present method is installed. According to one scenario, the web-site is a familiar User of the present method, and has pre-arranged the terms and conditions of what Information he may wish to transfer rights to. For example, after considering the web-site transmission containing the non-confidential disclosed Information, the System may find that all of the Information already recorded in its Databank with the single exception of the visitor's annual income. By prearranged contract details, the web-site is given a predetermined micro-payment credit for providing this detail. Alternatively, by prearranged contract the Databank agrees to store this User Attribute and to credit the providing web-site with a micro-payment royalty for each use of this Attribute "purchased" from the Databank by each interested party.

Likewise, according to the same prearranged contractual arrangements between the User and the Databank, the Databank may find that it represents a right to an Attribute that has not been disclosed to it by the User. In this example, the System's Databank may then transmit a query to the User in the form: "for the identified visitor (detail from original Transaction inserted), are you interested in the following Attributes according to the associated payment conditions: (education level, micro-payment price schedule 1), (gender, micro-payment price schedule 2), etc.?"

The Systematic procedure described in the preceding paragraph includes various steps that can be better illustrated by example. However, the reader should be aware that all examples which are stated in this document are limiting examples that are expressed in this document solely for the purpose of explanation and not for the purpose of limitation.

Initially a User will interface with the System by providing the System's Databank with a partial profile consisting of at least one Attribute which will enable the identification of the entity described by the profile in the System's databank (the attribute could be for example, the cookie installed on the visitor's computer (the visitor to a web site which is a user of the system of course) by the server attached to the databank. The User enables

the server attached to the databank to receive the cookie it installed by redirecting a portion of the visitor page to the Databank's server) . For example a company might provide the System with a name of one of its customers. This step sets the process in motion. For once there is an initiation by contribution of an initial Attribute list by the User, the System will search existing Data in the Databank.

It should be recognized that the existing Databank would have the characteristics that when it is approached by the User it will already contain or have the ability to acquire or generate a multiplicity of other partial profiles and room for at least one null profile; since it is the business of the Databank to consider representing any new item of profile Information. For example the Databank might contain a list of geographic addresses of individuals. Then, once the User provides a name, the System will provide either a corresponding address or the message address unknown.

An alternative example has the User, in this case a web portal, providing the computer with a list of the previously monitored search habits of one of the portal's Visitors. The System's Databank might then suggest to the portal other web sites that contain text and/or graphics of similar type which the portal might then suggest to the Visitor, presuming that the system maintains profiles on portals or web sites or surfing habits. If the web sites provided by the portal are provided on a fee basis, then a mechanism may be included in the contractual basis between the portal and the System whereby partial remuneration in the form of a micro payment would be made for any click through activity on the part of the Visitor to a web site suggested by the System to the portal and then suggested by the portal to the Visitor. It is noted that the click through itself would be of further interest to both the portal and the System in the building by the System of a profile related to the behavioral characteristics or psychological makeup or predisposition of the Visitor.

Once there is a coupling of the first partial profile of the User with a second partial profile existing in the Databank, a contract can be formed

between the User and the System related to the new Information set which has resulted. The contract should provide that the System will own or acquire a license to utilize an agreed portion of the first partial profile which has been confirmed and at some time thereafter the System will incorporate the agreed portion of the first profile into at least one second partial profile in the System's Databank.

For example the name of an individual (an initial partial profile provided by the User) when coupled with age (a second partial profile provided by another use, inherent in the System's Databank, or acquired by the System searching other Databases will provide a partial second profile of certain demographic value consisting of name and age. If for example other partial profiles are found to correspond to gender, geographic address, and/or general income there is a further enhancement of the partial second profile which results in a gain in the value of the Information residing or incorporated from other Databases into the System's Databank and offered for exchange in accordance with the terms and instructions existing between the User and the System.

Alternatively, rather than the System acquiring by ownership or license an agreed portion of the first profile; the User itself might desire to acquire a right to own or license to use at least a part of an agreed portion of the second partial profile which has been confirmed by the System by its coupling with the first partial profile. Thus it would be an agreed function of the System to provide to the User an agreed portion of the second profile

For example the User might have the name and car model owned by a driver; the System's Databank might have or have acquired the driving record of the driver and the safety record of the particular car model. The result of the coupling is the ability to refine an appropriate insurance rate for the particular driver and his car.

Alternatively the descriptive profile mercantile method might do both of the above by providing ownership or license to use certain Information gleaned by the coupling of an initial partial profile with a second partial profile to both

the System and the User. For example the System's Databank might retain the use of the names and addresses of insurance agents and their actuarial calculations residing in a geographical area proximate to the driver mentioned in the above paragraph while a User (in this case the driver himself) might retain the name and address of the insurance agents willing to offer him insurance.

Inherent in the above examples is that the System that receives an input or exchange of Data consisting of a first partial profile from a User will distill from that Information at least one predetermined Attribute. This Attribute is then utilized by the System for searching the System's Databank. Thus, the System when receiving Data will within the parameters of the Transaction extract at least one predetermined key portion of the first partial profile, wherein at least one of these extracted predetermined key portions is then used as the first partial profile for the searching of the System's Databank. When the System extracts Data it also constructs at least one composite key for the searching of the Databank using a combinatorial of at least two of the predetermined key portions of the first partial profile. For example, a combination of the name and address of a person described in a profile will be used to search the databank. The combinatorial use is of importance to differentiate between partial profiles of people with the same name that does not allow cookies for example. Continuing the example, in addition to whether the advertisement is for automobiles, it may be important to couple that Information with only advertisements for home utility vans such that the first partial profile will now consist of car advertisements for only home utility vans.

An "interest" expressed by a User and the System, as to what these parties define between them as relevant Data, may be expressed by the User and the System in a Pricing Structure. The Pricing Structure will include a contract between the User and the System that will include an obligation by the party which utilizes the Information flowing to the System's Databank to pay the other for substantially each use or transfer of the agreed Information transferred between them. Instant Data may or may not be ephemeral, however

the profiles themselves may have a certain limited or even unlimited shelf live. This means that Information becomes currency and is treated by the parties in a manner similar to currency. To own or utilize certain Information, there is a price associated with it either as a sales price or a rental price. In the event that the Information is re-useable, in part or in whole then a certain predetermined royalty may be associated with each use of the portion of the Information which is reused. Let an example be provided at this juncture to further illustrate the operation of the preferred embodiment.

Normative market research consists of an array of Information that is gleaned from answers provided to a questioner. However the market research contains within itself not only the ability to provide truthful responses but also the ability to provide sampling errors due to either wrong answers, wrongly recorded answers, an error in the framing of the questions themselves, and/or an error in the population base which is being questioned. Clearly the larger and more diverse (or more homogeneous) the sample population (dependent on the type of responses required), the larger number of similar questions answered, and the ability to better refine the questions all assist in increasing the value of the market analysis performed.

In the embodiment of the invention described, the User provides either a question or an answer, i.e. the initial partial profile. Thereupon, the System thereupon takes the initial partial profile and extracts from it a predetermined Data that is then used for searching the Databank. Depending on the contract between the User and the System, the System will or will not pay the User for the initial partial profile, or parts thereof. The search, of the Databank, results in the construction of a new profile that contains at least two predetermined parts of the first partial profile. For example, both the User and the System may be interested in screening the responses to a market survey of an individual respondent in order to ascertain whether on previous or similar questionnaires the respondent's answers were identical or deviant. This will allow both the User and the System to value the truthfulness and veracity of the current

responses. The aforesaid quality value will have a predetermined monetary or other agreed "barter" value between the parties.

In addition, since the upgrading or downgrading of the credibility of the respondent has qualitative value in and of itself for other market surveys; to the extent that the User's Information contributed to the new evaluation of the respondent a payment might flow to the User. Similarly, to the extent that the upgrading or downgrading of the credibility of the respondent is based on existing Information in the System's Databank, the System may provide a royalty payment to the initiator of the existing Information in the System's Databank. Thus, to the extent that the Information inherent in the initial partial profile and in existing partial profiles have value and to the extent that participants who utilize the System (including the System's Databank itself) have agreed on the value rating of the Information and the amount to be paid between them an exchange of predetermined economic value will flow between the participants. In addition, to the extent there is further Information and further participants, the continuing re-evaluation by the participants of a market valuation of the Information as a function of the expected utility value of the Information may further drive over time the price evaluation of both the Information and the payments to be made between Users and the System.

Furthermore, the preferred embodiment may embrace a further possible variations, i.e. an assignment by the contracting participants and/or the Databank, per se, of a credibility rating to the agreed portion of the first partial profile. Coupling of the first partial profile with a second partial profile result in verification/confirmation of the first partial profile and second partial profile or contradiction/down grading of the credibility of the first partial profile and/or the second partial profile. By example, the first partial profile contains the name of Joe Blue, the Information that he is male, and the Information that he lives in Mississippi. However the corresponding second partial profile associated with Joe Blue contains the Information that he is a she (real name Josephine) and that she lives in Mississippi. The verification - perhaps- of the name is of dubious value in and of itself. However, in the event that for a

certainty it can be established that Joe Blue is really Josephine Blue and that the gender is female rather than male; then to a User of the Information the validation or disqualification of the Information has significant results. Assume if you would that the User of the Information is an advertiser of beauty care products; the fact that Joe is male or female can result in an advertisement of beauty care products to specifically targeted to the profile - in this case, male or female. In this instant case the User (the advertiser) will assign a value to the credibility of the Information.

Intrinsic to the example immediately above is the ability of the participants either individually or collectively to either raise or lower the rated utility value assigned to the first partial profile consistent with the pre-determined (but perhaps equally dynamic) credibility weighting System of the second partial profile. Thereafter the newly rated utility value of the partial profile incorporated in the Database is stored for future usage. Lets see how this works in the case of Joe (Josephine) Blue. The first partial profile indicated that Joe was male; however all subsequent partial profiles which could be assigned to Joe (Josephine) Blue render to a statistical certainty that Joe (Josephine) Blue is actually female. This combined with other Attributes like geographical address, income level, and even spending patterns, when stored in the Databank results in an increasingly higher utility value rating for the (credible) Information associated with Joe (Josephine) Blue. Thus, the raising or lowering of the credibility rating of an Attribute due to the interaction between the associated Attribute of the first partial profile and the second partial profile results in a corresponding change in the rating of the anticipated utility value of the Attributes and profile themselves.

A further variation of the preferred embodiment incorporates an agreed portion of the Data and assigns a credibility rating to the agreed portion of the first profile. This is accomplished by assigning a credibility rating of the first profile with a pre-existing credibility rating of a substantially like agreed portion of a proximate second profile; and storing the convoluted new credibility weighting for the agreed portion in the System's Databank. This may result in an

interesting result. When the participants select a Pricing Structure in accordance with a predetermined corresponding rating of the utility value of the partial Attributes; the result of the continuous re-calibration of new Information with existing Information and a predetermined agreement by the parties as to the various value rating of an Attribute:

If, for example, Ms. Blue's credit rating would be confirmed as bankrupt; the desirability of an advertiser to send her advertisements for the purchase of a pleasure craft would be seriously impacted notwithstanding the fact that other Information in the Databank related to Ms Blue indicates that she is a water skiing enthusiast and otherwise fits both demographic, behavioral, and/or psychological profiles (which might reside in the Databank) associated with candidates for potential purchasers of pleasure craft.

Another particularly useful variation of the preferred embodiment of the invention includes within it the possibility of consultation by the System with an external Database or external Databases. For example, the System is not restricted to searching the existing Attributes residing within its own Databank. Rather, the System is capable of acting as a first partial profile User to other Databases, searching them, trading Information with them or borrowing, renting, or purchasing other Attributes with them. Thus the Information related to credit worthiness Attributes of Ms. Blue of the previous example might reside in a Database owned by a credit company. Nonetheless, as per the example, the System would be able to utilize the Information resident in the credit company's Database for its own purposes related to the Transaction with the User.

Furthermore the preferred embodiment may embrace other possible variations, including an ability to search one or more external Databases for a partial profile, or part thereof which complements at least one second partial profile of the System's Databank. In the example of Ms. Blue; the name may be resident in the Databank as well as a number of different external Databases. Other Attributes may reside as well either in the Databank or in one or more external Databases. Nonetheless the result by search, correlation, and rating of

the Information in the Databank and the Databases results in both an expanded profile and a higher rating as to credibility of the partial profile existing both in the Databank and in the other Databases.

Thus, both System and owners of other Databases may themselves
5 contract between themselves for the right to own, use, license, or rent the other's partial profile and for the right to sublicense others to further use the other's partial profile. Since the Information may very well have a shelf life - even as its credibility and rating may change over time - the result is a corresponding velocity of the value of the Information in that not only is the
10 more the Information used is the more valuable it is and becomes; but the more the Information can be used the greater the potential value it has to its owners of licensors (with a right to sublicense). If we return to our example of Ms. Blue, the fact that she is female (Information from the System's Databank), is interested in water skiing (a partial Attribute contributed by the first partial
15 profile User), and has a restored credit rating (provided by an external credit service Database) means that other Users looking at their own profiles of young, single, sports minded women, would desire to provide her with advertisements related to scuba diving in the Gulf of Mexico. This other User would pay the System for the Information it has stored or accessed. The System
20 itself would pay the initial provider of the verification of the gender of Ms. Blue, to the User who contributed that Ms. Blue is interested in water skiing and might share a fee associated with the clarification of Ms. Blues' actual credit worthiness.

As an alternative embodiment to a process that has previously been
25 described is the ability to embody the invention not as a process but as a computer useable program, i.e. a software product, which allows the exchange of descriptive profiles between Users, Databanks, and/or computers. Another alternative is usage as a computer program storage device.

CLAIMS

1. A descriptive-profile mercantile method, for use at a juncture in a data-communications topology having associated therewith a maintained databank of partial profiles, the method including the steps of:
 - a) from a user, receiving a transaction having therein a first partial profile;
 - b) using the first partial profile, searching a databank having a plurality of second partial profiles, wherein is included in said databank at least one null profile so that said searching will always yield at least one proximate second partial profile to the first partial profile;
 - c) between the user and the databank, contracting:
 - i) for the databank to own or represent a right to a first mutually agreed portion of the first partial profile, and substantially thereafter said databank incorporating the agreed portion of the first profile into at least one second partial profile; or
 - ii) for the user to own or represent a right to a second mutually agreed portion of at least one said proximate second partial profile, and substantially thereafter the databank transmitting to the user the second mutually agreed portion of the second profile.
2. The method according to claim 1 wherein receiving a transaction includes extracting at least one predetermined key portion of the first partial profile, wherein at least one of these extracted predetermined key portions is then used as the first partial profile for the searching of the databank.
3. The method according to claim 2 wherein extracting includes constructing at least one composite key for the searching of the databank using a combinatorial of at least two of the predetermined key portions of the first partial profile.

4. The method according to claim 1 wherein **contracting** includes selecting a pricing structure according to a rating of the user.

5. The method according to claim 1 wherein **contracting** a right includes
5 **accepting** an obligation to pay for substantially each use or transfer of the agreed portion.

6. The method according to claim 1 wherein **incorporating** the agreed portion includes **assigning** a credibility weighting to the agreed portion of
10 the first profile.

7. The method according to claim 6 wherein **incorporating** includes **convoluting** the assigned credibility weighting of the first profile with a pre-existing credibility weighting of a substantially like agreed portion of a proximate second profile; and **storing** the convoluted new credibility
15 weighting for the agreed portion in the databank.

8. The method according to claim 7 wherein **contracting** includes selecting a pricing structure according to a result of a computation comparing the
20 new credibility weighting with the pre-existing credibility weighting.

9. The method according to claim 1 wherein **receiving** a transaction includes **consulting** an external database.

25 a) The method according to claim 1 further including

i) **searching** at least one external database for a partial profile or portion thereof which complements a at least one second partial profile of the databank, and

ii) between the database and the databank, **contracting** for the
30 databank to own or represent a right to a first mutually agreed portion of the complementing first partial profile, and substantially

thereafter said databank **incorporating** the agreed portion of the first profile into at least one second partial profile.

10. A computer program product including a computer usable medium having
5 computer readable program code embodied therein for facilitating descriptive profile mercantile activities, the computer readable program code including:

a) first computer readable program code for causing a computer to
10 receive a transaction from a user, the transaction having therein a first partial profile;

b) tied to the first computer readable program code, second computer
readable program code for causing the computer to use the first partial
profile to search a databank having a plurality of second partial profiles,
wherein is included in said databank at least one null profile so that said
15 searching will always yield at least one proximate second partial profile to the first partial profile; and

c) tied to the second computer readable program code, third computer
readable program code for causing the computer to **contract** between
the user and the databank:

20 i) for the databank to own or represent a right to a first mutually agreed portion of the first partial profile, and substantially thereafter for said databank to **incorporate** the agreed portion of the first profile into at least one second partial profile; or

25 ii) for the user to own or represent a right to a second mutually agreed portion of at least one said proximate second partial profile, and substantially thereafter for the databank to **transmit** to the user the second mutually agreed portion of the second profile.

11. A program storage device readable by machine, tangibly embodying a
30 program of instructions executable by the machine to perform method steps for a descriptive-profile mercantile method, for use at a juncture in a

data-communications topology having associated therewith a maintained databank of partial profiles, said method steps including:

- a) from a user, receiving a transaction having therein a first partial profile;
- 5 b) using the first partial profile, searching a databank having a plurality of second partial profiles, wherein is included in said databank at least one null profile so that said searching will always yield at least one proximate second partial profile to the first partial profile;
- c) between the user and the databank, contracting:
 - 10 i) for the databank to own or represent a right to a first mutually agreed portion of the first partial profile, and substantially thereafter said databank incorporating the agreed portion of the first profile into at least one second partial profile; or
 - 15 ii) for the user to own or represent a right to a second mutually agreed portion of at least one said proximate second partial profile, and substantially thereafter the databank transmitting to the user the second mutually agreed portion of the second profile.

12. A computer system for facilitating a descriptive-profile mercantile method, the system including:

- a) a computer installed at a juncture in a data-communications topology;
- b) associated with said computer, a storage device for keeping a maintained databank of partial profiles; and
- 25 c) associated with the internal functionality components of the computer, appurtenances for performing method steps including:
 - i) from a user, receiving a transaction having therein a first partial profile;
 - 30 ii) using the first partial profile, searching a databank having a plurality of second partial profiles, wherein is included in said databank at least one null profile so that said searching will always

yield at least one proximate second partial profile to the first partial profile;

iii) between the user and the databank, **contracting**:

(1) for the databank to own or represent a right to a first mutually agreed portion of the first partial profile, and substantially thereafter said databank **incorporating** the agreed portion of the first profile into at least one second partial profile; or

(2) for the user to own or represent a right to a second mutually agreed portion of at least one said proximate second partial profile, and substantially thereafter the databank **transmitting** to the user the second mutually agreed portion of the second profile.

For the Applicant

By: *Jeremy M. Ben-David & Co. Ltd.*

Fig. 1

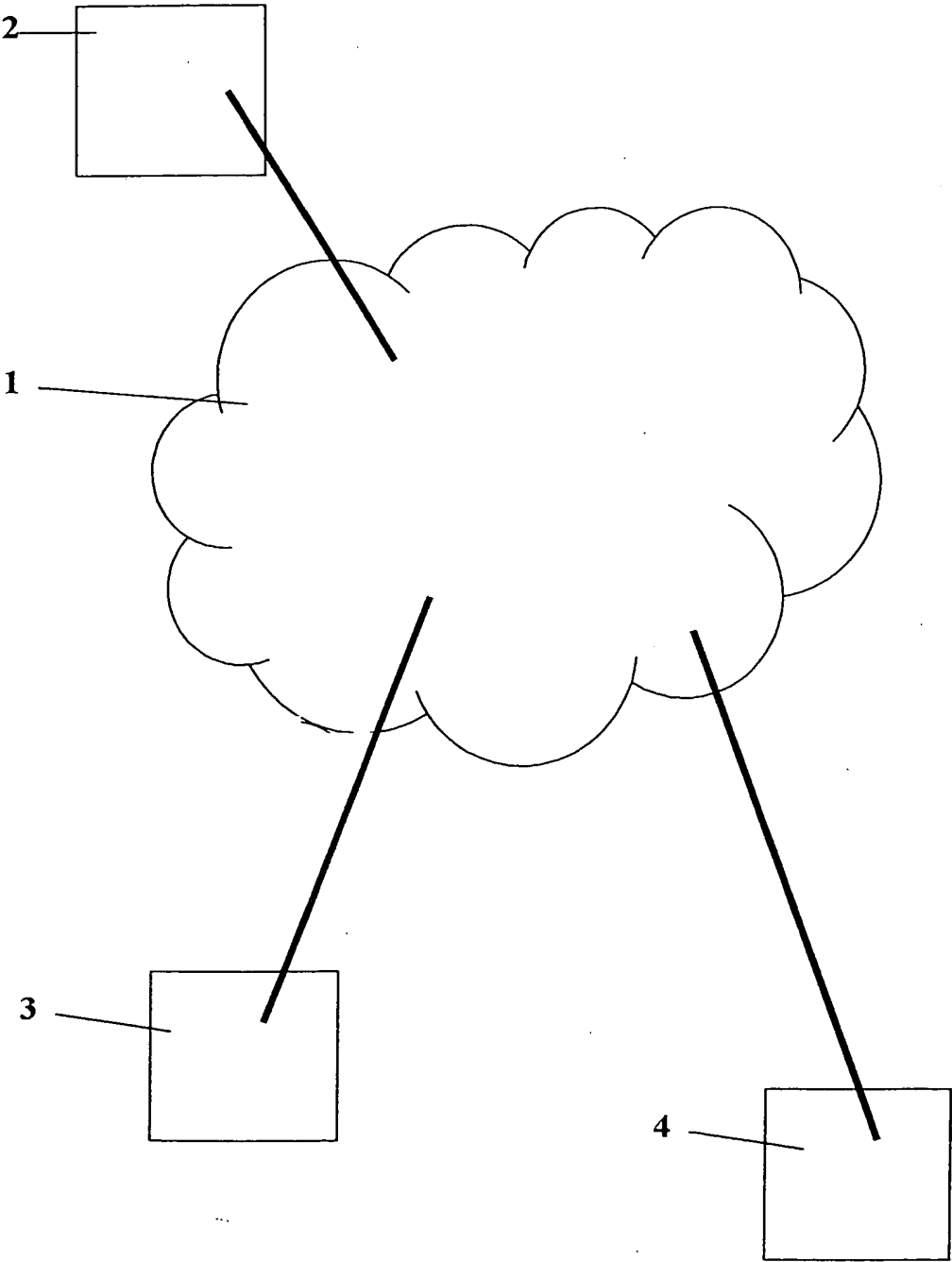


Fig. 2

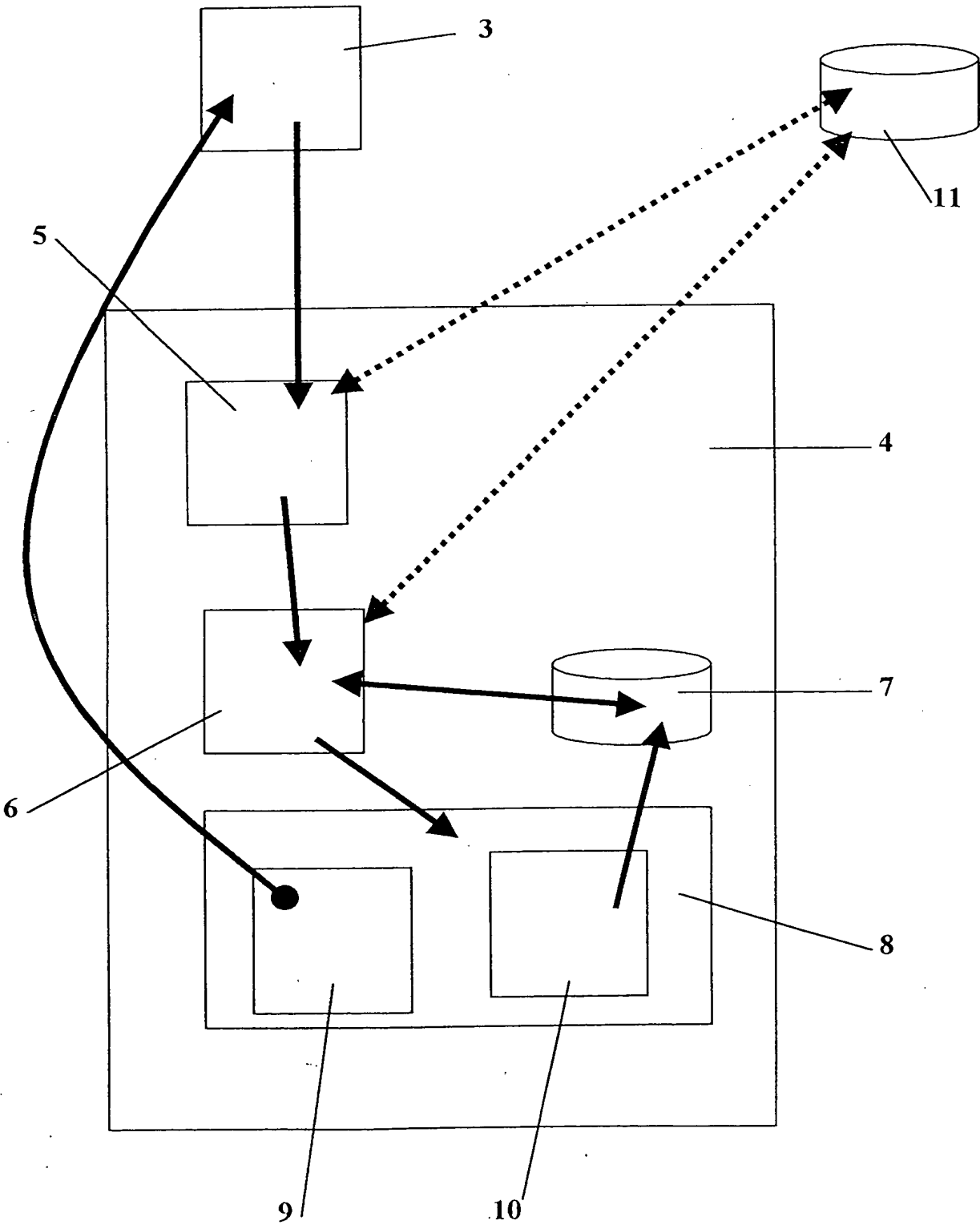


Fig. 3

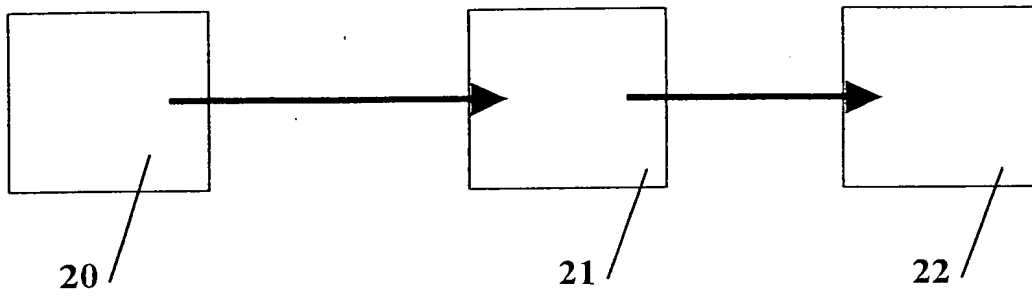


Fig. 4

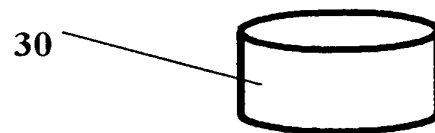


Fig. 5

